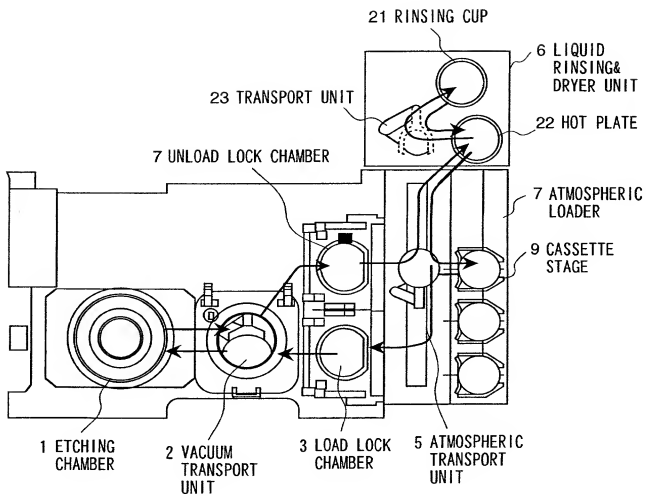


FIG.1



10083353.002702

FIG.2

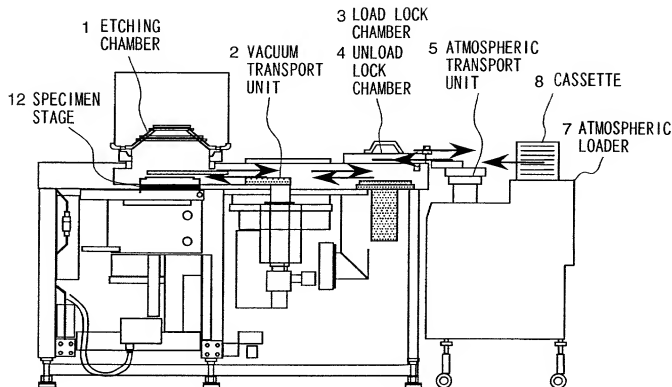


FIG.3

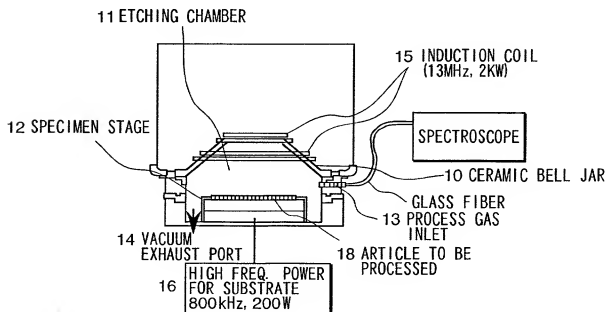


FIG.4

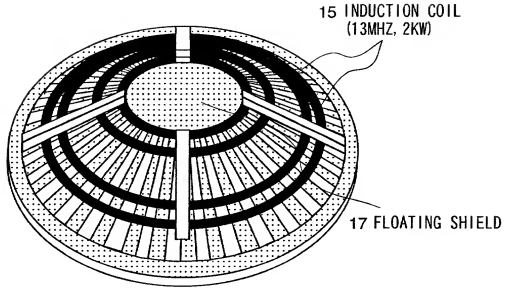


FIG.5

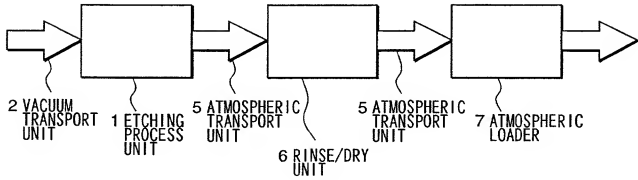


FIG.6

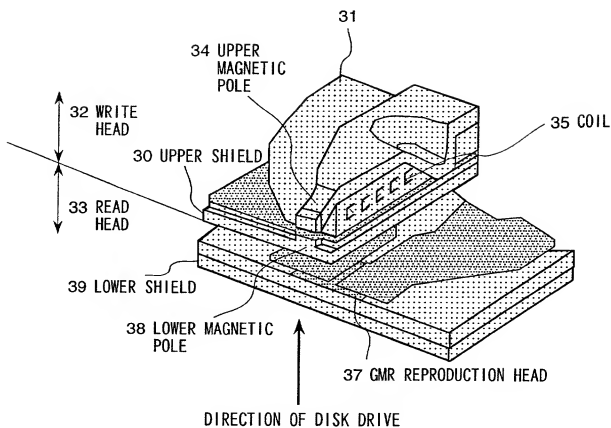


FIG. 7

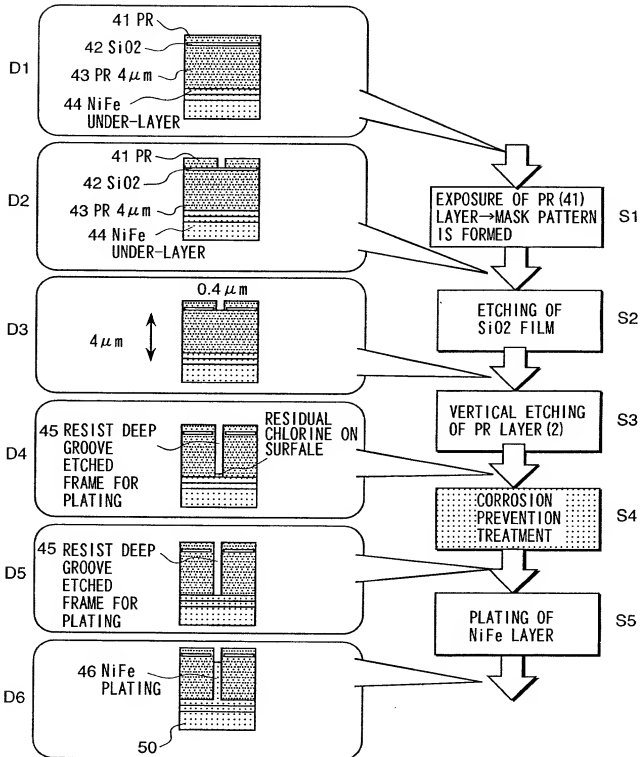


FIG.8

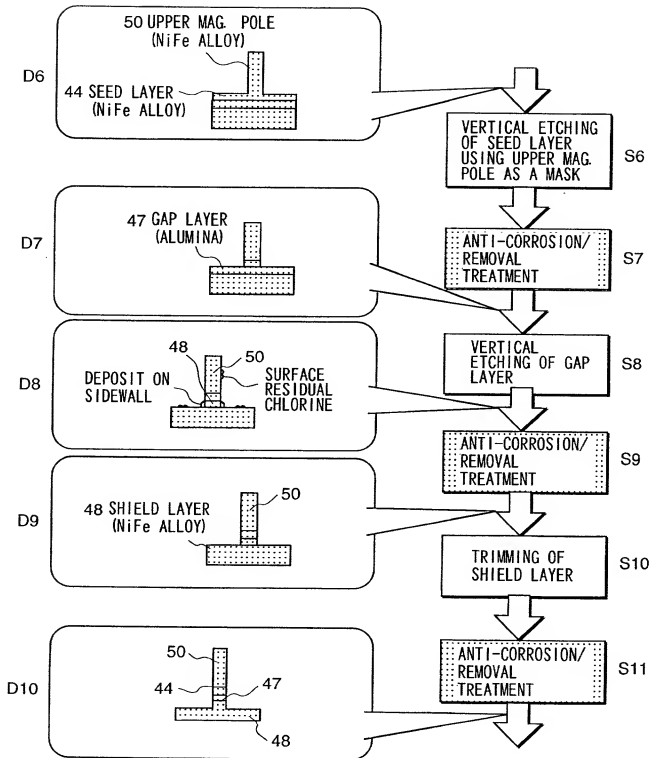


FIG. 9

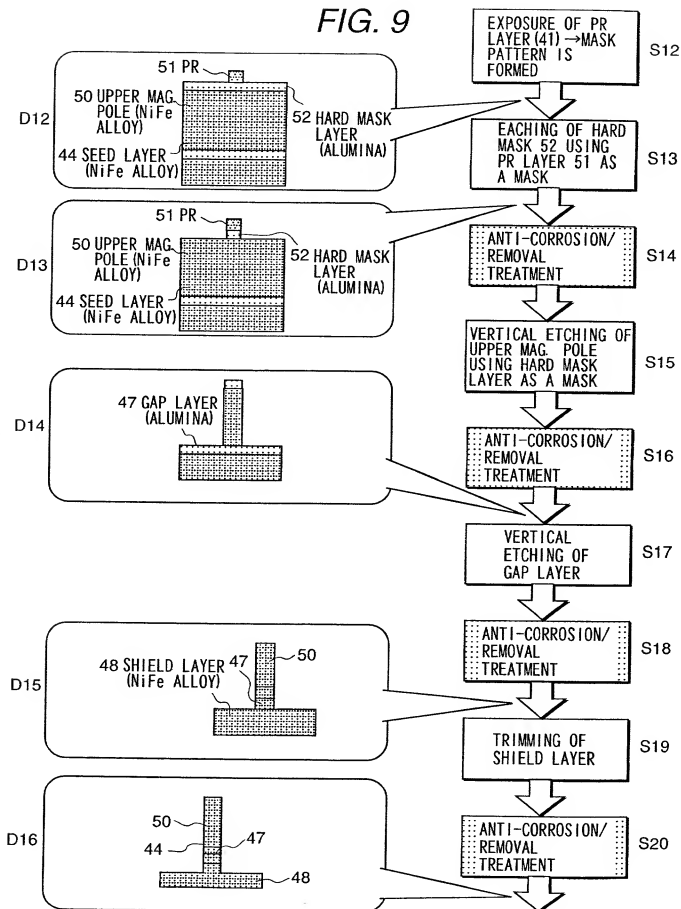


FIG. 10

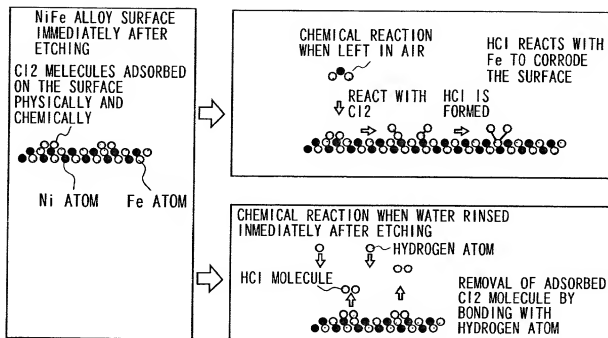


FIG. 12

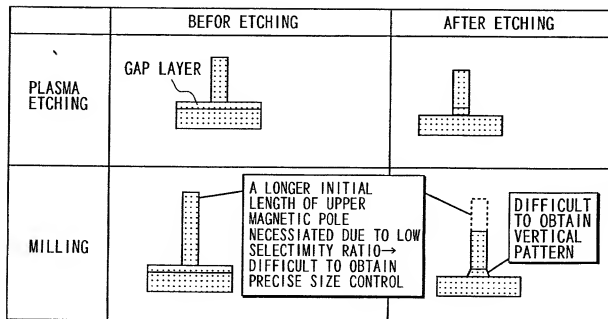




FIG.11

EXPERIMENTAL CONDITIONS*	TIME UNTIL CORROSION OCCURS
LEFT IN AIR AFTER ETCHING OF GAP LAYER	5 MIN.
LEFT IN AIR AFTER PURE WATER RINSING/DRYING WITHIN 2 MIN. AFTER ETCHING OF GAP LAYER	AFTER MORE THAN 2 WEEKS

ITEM	UNIT	RESULT
RATE	nm/min	108.5

*OTHER CONDITIONS

ITEM	CONDITIONS
DEVICE STRUCTURES PRIOR TO & AFTER ETCHING	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>UPPER MAG. POLE (NiFe ALLOY)</p>  </div> <div style="font-size: 2em;">→</div> <div style="text-align: center;"> <p>GAP LAYER (ALUMINA)</p> <p>SHIELD LAYER (NiFe ALLOY)</p>  </div> </div>
GAS	Cl 20sccm+BCl3 30sccm
PRESSURE	0.3Pa
STAGE TEMP.	40°C
SOURCE RF POWER	750W
SOURCE RF FREQ.	13.56MHz
BIAS RF POWER	60W
BIAS RF FREQ.	800KHz

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